

Inference at \*  
of proof for Lemma bimplies\_weakening:

$\vdash \forall u, v: \mathbb{B}. (u = v) \Rightarrow (\uparrow(u \Rightarrow_b v))$   
by ((RepD)  
CollapseTHENA ((Auto\_aux (first\_nat 1:n) ((first\_nat 1:n), (first\_nat 3:n)  
)) (first\_tok :t) inil\_term))).

1:

1.  $u : \mathbb{B}$
  2.  $v : \mathbb{B}$
  3.  $u = v$
- $\vdash \uparrow(u \Rightarrow_b v)$   
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